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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,861	05/03/2007	Erkki Soini	TUR-185	1995
32954 JAMES C. LYI	7590 08/07/200 OON	EXAMINER		
100 DAINGER	FIELD ROAD	FRITCHMAN, REBECCA M		
SUITE 100 ALEXANDRIA	A, VA 22314		ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			08/07/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/588,861	SOINI ET AL.
Office Action Summary	Examiner	Art Unit
	REBECCA FRITCHMAN	1797
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 17 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and. Application Papers 9) ☐ The specification is objected to by the Examination of the drawing(s) filed on is/are: a) ☐ according to a positive and according to a positive according to a posi	awn from consideration. /or election requirement. ner.	Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicati iority documents have been receive au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

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Detailed Action Summary

This is the Non-Final Office action based on 10/588861 application attorneys remarks

filed on 07/17/2009.

Applicant's election with traverse of Claims 1-12 in the reply filed on 07/1/7/2009

is acknowledged. The traversal is on the ground(s) that groups I, II, & III all relate to a

single general inventive concept. More specifically, Groups I-III share a special

technical feature in the quantification of clinical chemistry analyte, defined as excluding

analytes measured using bioaffinity assays in which the analyte is quantified by two-

photon excited fluorescence(TPE). In this case the common technical feature is not

special. Examiner agrees with applicants argument with respect to MELOTA, however

in leiu of SOINI et al. in US 6342397 the restriction is maintained due to the fact that

SOINI et al. teach of a biospecific (bioaffinity) assay which uses two-photon excitation

(abstract).

The requirement is still deemed proper and is therefore made FINAL.

Claims 1-12 are pending and have been fully considered.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

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1. Claims 1-10, & 12 are rejected under 35 U.S.C. 102(b) as being anticipated by SOINI et al. in US 6342397.

With respect to Claims 1,2, & 8, SOINI et al. teach of a homogeneous biospecific assay for an analyte in a solution or in a suspension in which the biospecific reagent competitively binding an analyte and a ligand labeled with a fluorescent molecule is reacted with and bound to a solid phase and in which the free labeled ligand is excited with two-photon excitation by focusing the laser-beam suitable for two-photon excitation into the sample volume and the concentration of the analyte is calculated based upon the photo emission contributed by the free labeled ligand(abstract).

With respect to Claim 3, SOINI et al. teach of measuring the reaction kinetically (column 7, line 55-column 8, line 15).

With respect to Claim 4, SOINI et al. teach of making an end point measurement (column 7, line 55-column 8, line 15).

With respect to Claims 5, 6, & 11, SOINI et al. teach of using the method for screening samples and quantifying them as positive or negative for (the method is repeated for different sample to screen them(column 7, lines 48-53). SOINI et al. also teach of using the fluorometric device for the detection of the analyte concentration in which is a protein, antibody, or a nucleotide (abstract, & column 1, lines 17-31).

With respect to Claims 7 & 10, SOINI et al. teach of the analyte being protein (column 1, lines 17-31).

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With respect to Claim 12, SOINI et al. teach of determining the concentration of the analyte (quantification of the bioaffinity analytes) (abstract).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claim 9 is rejected under 35 U.S.C. 103(a) as being obvious over SOINI et al. in US 6342397.

With respect to Claim 9, SOINI et al. do not specifically teach of the parameters used for the laser operation. SOINI et al., however does teach that such parameters are optimizable. Specifically, SOINI et al. teach that it is possible to compensate the signal reductions by increasing the average power of the laser correspondingly. The most optimal way to increase the average power is to increase the laser pulse rate (column 3, lines 55-column 4, line 9).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to REBECCA FRITCHMAN whose telephone number is (571)270-5542. The examiner can normally be reached on Monday- Friday 7:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim, Vickie can be reached on 571-272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Krishnan S Menon/ Primary Examiner, Art Unit 1797

R.F.